

7. A splice with _____ splice break ratio (SBR) can be considered as good quality splice.
 - a) 10
 - b) 20
 - c) 30
 - d) 40
8. Other sizing conditions remaining unchanged, the size pick up _____ with _____ sizing speed and vice versa.
 - a) increases, decreasing
 - b) increases, increasing
 - c) decreases, decreasing
 - d) decreases, increasing
9. A _____ is dark or light band across the width of the fabric which shows up prominently particularly in dyed fabrics.
 - a) weft streak
 - b) warp streak
 - c) reediness
 - d) weft bar
10. Number of thread breakages should not exceed _____ per 10 million meters in warping process meant for shuttleless weaving.
 - a) 60
 - b) 7
 - c) 70
 - d) 20

PART B (10 x 2 = 20 Marks)

11. List the various causes of neps generation in blow room and carding.
12. Point out the methods adopted in spinning industry to control soft waste.
13. State the significance of controlling invisible loss in the spinning mill.
14. Define HOK.
15. Illustrate the spectrogram of fault-free yarn and faulty yarn.
16. Classify yarn faults as per Uster Classimat system.
17. Outline the yarn quality requirements for Airjet weaving process.
18. Illustrate the Sizing-Weaving Curve and show the influence of Optimum size add-on.
19. List the various factors influencing loom efficiency
20. State the optimum ambient conditions for different shuttleless weaving processes.

PART C (5 x 14 = 70 Marks)

21. a) (i) Elaborate the various causes of neps generation and nep control strategies (7) carried in, carding and comber process.
- (ii) Elaborate the significance of blending irregularity and fibre rupture on spinning (7) performance and yarn quality. Point out the control measures for the above irregularities.

(OR)

- b) (i) Explain the significance of Fibre Quality Index in Quality control of mixing. (7)
(ii) Discuss briefly on quality and process issues due to soft waste addition in mixing. (7)
22. a) (i) Explain briefly the procedure of determining yarn realization in a spinning mill. (7)
(ii) Detail the procedure for determining cleaning efficiency in blow room and carding. (7)
- (OR)**
- b) (i) Discuss the waste control measures followed in blow room and carding. (7)
(ii) Discuss the hard waste control measures followed in ring frame and winding. (7)
23. a) (i) Discuss the various causes and control strategies of within bobbin C.V% and between bobbin C.V% in ring frame. (7)
(ii) Elaborate the various causes and control measures of hairiness in yarn. (7)
- (OR)**
- b) (i) Discuss briefly about the yarn faults w.r.t classification, causes and control measures. (7)
(ii) Elaborate the practical significance of controlling strength C.V% in yarn. (7)
24. a) (i) Explain briefly the causes and control measures of various package defects associated with yarn winding. (7)
(ii) Elaborate the various process control measures taken in warping process. (7)
- (OR)**
- b) (i) Elaborate the various process control measures taken in sizing process. (7)
(ii) Discuss briefly on the quality of warper's beam and sized beam (7)
25. a) (i) Elaborate the various process control measures taken in loom shed. (7)
(ii) Point out the causes, effects and control measures of any four fabric defects. (7)
- (OR)**
- b) (i) Discuss the importance of maintaining correct ambient conditions in loom shed. (7)
(ii) Elaborate the various process control measures taken in projectile and water-jet weaving process. (7)
